Title:

Premium Microfine Ordinary Portland Cement – ISI Mark & Standards

Description:

Ensure superior quality with Microfine Ordinary Portland Cement. Know ISI Mark, IS 16993:2018, and quality control measures for lasting construction.

Introduction: Real-World Scenario with Microfine OPC

While working on a metro construction project in Bengaluru a few months back, the engineers in charge of the project noted that multiple batches of cement were setting inconsistently. Upon investigation, it was found that the bags of cement did not show an ISI Mark for Microfine Ordinary Portland Cement, and it was unclear whether it conformed to IS 16993:2018. This is an excellent example of why builders and contractors should select products that are certified, and then only they can be assured that they are using the right materials. Microfine Ordinary Portland Cement (OPC) is not just an Ordinary Portland Cement. This cement is manufactured using another specification where engineers produce finer products, in the case of OPC, only for extremely fine construction projects like high-rises and complex structures in which uniformity and early strength are important.

What is Microfine Ordinary Portland Cement?

Microfine OPC, is a modified version of ordinary Portland cement with a finer particle size than ordinary Portland cement, which enhances the workability and speed of hydration. This cement would be appropriate for thin layers, micro-concreting and precast. The properties of this cement should ensure that it obtains better strength and durability for whatever application.

Highlights as follows :-

- Particle size < 200 microns
- Quick initial setting
- Reduced micro-cracks in finished concrete

“We switched to Microfine OPC for our façade panels and noticed a significant reduction in cracking compared to standard OPC,” shared a client from Hyderabad’s high-rise projects.

Understanding ISI Mark for Microfine Ordinary Portland Cement

The ISI Mark is the mark of quality in India, indicating that the cement meets the Bureau of Indian Standards (BIS) specification. For Microfine OPC, this includes the **IS 16993:2018.**

Why ISI Matters:

1. Guarantees consistent performanc
2. Ensures speciation's or met specifications of the chemicals and physical
3. Provides assurance of long lasting durability

IS 16993:2018 – Microfine OPC Specification

The IS 16993:2018 standard has compositional, fineness, setting times and compressive strength provisions for Microfine OPC,Oxide II and Project Specific Cement Products Compliance ensures:

- Maximum 1.0% free lime
- Blaine fineness ≥ 320 m²/kg
- Compressive strength: 3 days ≥ 16 MPa, 7 days ≥ 30 MPa

ISI License for Microfine OPC – What Builders Must Know

Manufacturers can sell Microfine OPC only if they have an ISI license. In order to qualify for an ISI license, the manufacturer undergoes thorough factory checks, and all raw materials must be scrutinized, with laborories administering chemical tests continuously. Only brands with a valid license may carry the ISI logo, and this confirms that the brand is a reliable quality indicator.

Quality Control Measures in Microfine OPC Production

Step-by-Step Quality Control:

1. **Raw Material Testing** – Limestone, gypsum, and additives are analyzed for purity.
2. **Grinding & Fineness Check** – Ensures particle size below 200 microns.
3. **Hydration and Strength Testing** – Early and final setting times verified in labs.
4. **Batch Consistency** – Continuous sampling for chemical uniformity.

Choosing the Right Microfine OPC for Your Project

- Always check for ISI Mark on your Microfine OPC bags.
- Confirm batch and manufacturing date to avoid expired cement.
- Compare brands on fineness, setting time, and early compressive strength.
- Maintain a log of supplier certifications and BIS approvals.

Conclusion: Invest in ISI-Certified Microfine OPC

Microfine Ordinary Portland Cement with an ISI Mark is am inherent part of assuring your projects are meeting quality, durability and safety standards. It is important for builders to be aware of IS 16993:2018, rely on an BIS certified producers, and dispensing quality control in any ordination of work to avoid delays, curb wastage and

5**crofine OPC bags** and maintain supplier diligence—it's a small check that prevents major headaches.

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